

1, SONGWAL-DONG, NAJU-SI, JEOLLANAM-DO, 520-130, KOREA(REP)

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Material Safety Data Sheet (MSDS)	Report version	1.1		
	Revision Date	2013.03.13		
	Date	2013.03.13		
Product name:OCTYL ALCOHOL	Change List			

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

A.Product identifier : OCTYL ALCOHOL

B.Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Manufacture of chemical products, Manufacture of dyes and

pigments, Manufacture of paints, varnishes and similar

coatings, printing ink and mastics

Uses advised against : no data available

C.Details of the supplier of the safety data sheet

Company : LG Chem,Ltd.

Address : 1, SONGWAL-DONG, NAJU-SI, JEOLLANAM-DO, 520-

130, KOREA(REP)

Emergency telephone : 82-061-330-1114~5

2. HAZARDS IDENTIFICATION

A.Classification of the : Flammable liquids:Category 3 substance or mixture : Acute toxicity:Category 4

Acute toxicity:Category 4
Skin irritation:Category 2

Serious eye damage: Category 1

B.Label elements

Symbol







Signal Word : Danger

Hazard statements : Flammable liquid and vapour.Harmful if swallowed.Harmful in

contact with skin. Causes skin irritation. Causes serious eye

damage.

Precautionary Statements

precautionary : P210Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

P233Keep container tightly closed.

P240Ground/bond container and receiving equipment.

P241Use explosion-proof electrical · ventilating · lighting · (...) ·

equipment.

P242Use only non-sparking tools.

P243Take precautionary measures against static discharge.

P264Wash skin thoroughly after handling.

P270Do not eat, drink or smoke when using this product. P280Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response : P301 + P312IF SWALLOWED: Call a POISON CENTER or

doctor/ physician if you feel unwell.

P303 + P361 + P353IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310Immediately call a POISON CENTER or doctor/ physician. P322Specific measures (see supplemental first aid instructions

on this label). P330Rinse mouth.

P332 + P313If skin irritation occurs: Get medical advice/

attention.

P362Take off contaminated clothing and wash before reuse. P370 + P378In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam for extinction.

Storage : P403 + P235Store in a well-ventilated place. Keep cool.

Disposal : P501Dispose of contents/ container to an approved waste

disposal plant.

C.Other hazards

: no data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration	REACH registration number
2-ETHYL HEXAN-1-OL	104-76-7	100.0%	

4. FIRST AID MEASURES

A.following eye contact : Remove contact lenses.

Protect unharmed eve.

If eye irritation persists, consult a specialist.

B.following skin contact : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Wash contaminated clothing before reuse.

Get medical attention if irritation develops and persists.

C.following inhalation : If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

D.following ingestion : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

E.Notes to physician

Symptoms : no data available

Risks : no data available

Treatment : no data available

5. FIRE-FIGHTING MEASURES

A.Suitable extinguishing

media

: Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

B.Unsuitable extinguishing

media

: Do NOT use water jet.

C.Specific hazards during fire

fighting

: As the product contains combustible organic components, fire

will produce dense black smoke containing hazardous products

of combustion (see section 10).

D.Special protective

equipment for fire-fighters

: Wear self contained breathing apparatus for fire fighting if

necessary.

E.Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

A.Personal precautions : Keep people away from and upwind of spill/leak.

B.Environmental precautions : no data available

C.Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

Keep in suitable, closed containers for disposal.

D.Additional advice : no data available

7. HANDLING AND STORAGE

A.Precautions for safe handling

Advice on general occupational hygiene : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

: no data available Temperature class

Fire-fighting class : no data available

Dust explosion class : no data available

B.Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Electrical installations / working materials must comply with the

technological safety standards.

Further information on storage conditions

: no data available

Advice on common

storage

: No materials to be especially mentioned.

Storage period : no data available

Storage temperature : no data available

Incompatible materials : Strong oxidizing agents

Strong acids

Other data : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A.Components with Workplace Parameters

no data available

B.Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

C.Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection : Solvent-resistant gloves

Eye protection : Safety glasses

Ensure that eyewash stations and safety showers are close to

the workstation location.

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

Protective measures : no data available

9. PHYSICAL AND CHEMICAL PROPERTIES

A.Appearance

: liquid Form

Colour : colourless

B.Odour : alcohol-like

C.Odour Threshold : 0.138 ppm -

D.pH : no data available

E.Boiling point/freezing point : -76 °C

F.Initial boiling point/ freezing : 184 °C

point

G.Flash point : 73 °C

H.Evaporation rate : 600

I.Flammability (solid, gas) : no data available

J.Upper/Lower explosion limit : ≤ 12.7 %(V)

 $\geq 0.9 \%(V)$

K.Vapour pressure : < 1 hPa

: 880 mg/l L.Water solubility

M.Relative vapour density : no data available

N.Density : 0.8325 g/cm3

O.Partition coefficient: n-

octanol/water

: log Pow: 2.9(25 °C)

P.Autoignition temperature : no data available

Q.Thermal decomposition : no data available

R.Viscosity : Dynamic9.7 mPa.s

S.Molecular Weight : 130.22 g/mol

10. STABILITY AND REACTIVITY

A.Hazardous reactions : Vapours may form explosive mixture with air., Stable under

recommended storage conditions.,

B.Conditions to avoid : no data available

C.Incompatible materials : Strong oxidizing agents, Strong acids

D.Hazardous decomposition

products

: Thermal decomposition can lead to release of irritating gases

and vapours.

Carbon monoxide, carbon dioxide irritating, corrosive and/or toxic gases

11. TOXICOLOGICAL INFORMATION

A.Exposuer information highly : 피부 접촉, 눈 접촉

possibility

B.hazardous Information for health

Acute toxicity

Acute oral toxicity :

LD50 Oral: 3,290 mg/kg

Species: mouse

Method: OECD Test Guideline 401

Acute dermal toxicity

LD50 Dermal: > 3,000 mg/kg

Species: rabbit

Method: OECD Test Guideline 402

Acute inhalation

toxicity

LC50: > 0.89 mg/l

Exposure time: 4 h Species: mouse

Method: OECD Test Guideline 403

<= 5.3 mg/l

Skin corrosion/irritation

Species: rabbit

Result: Severe skin irritation Classification: Irritating to skin. Method: OECD Test Guideline 404

Exposure time: 4 h

Serious eye damage/eye

irritation

Species: rabbit

Result: Irritating to eyes.
Classification: Irritating to eyes.
Method: OECD Test Guideline 405

Respiratory sensitization

Maximisation Test

Classification: Contains no substance or substances classified

as sensitising.

Result: No hypersensitivity (skin)

Skin sensitization : no data available

Carcinogenicity

Not classifiable as a human carcinogen.

Species: mouse

Dose: 0 (water), 0 (vehicle), 50, 15

Exposure time: 24 months

Number of exposures: 5 days/week Subsequent observation period: none Method: OECD Test Guideline 451

Germ cell mutagenicity

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Genotoxicity in vitro

in vitro assay

Result: negative

Method: OECD Test Guideline 476

Genotoxicity in vivo

in vivo assay

Species: rat

Dose:250, 500 and 1000 mg/kg

Exposure time:5 d

Teratogenicity

Did not show teratogenic effects in animal experiments.

No toxicity to reproduction

Target Organ Systemic

Toxicant - Single

exposure

Exposure routes: Ingestion

Target Organs: Respiratory system Remarks: May cause respiratory irritation.

Target Organ Systemic

Toxicant - Repeated

exposure

Exposure routes: Ingestion

Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

12. ECOLOGICAL INFORMATION

A.Ecotoxicity

toxicity to fish

LC50: 28.2 mg/l Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

flow-through test

Analytical monitoring: yes

Method: OECD Test Guideline 203

Toxicity to aquatic

invertebrates

EC50: 39 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

static test

Analytical monitoring: no

Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to aquatic plants

EC50: 11.5 mg/l

Exposure time: 72 h

Species: Desmodesmus subspicatus (green algae)

static test

Analytical monitoring: no

Method: Directive 67/548/EEC, Annex V, C.3.

Chronic toxicity to fish : no data available

Chronic to aquatic invertebrates

: no data available

B.Environmental absorption and degradation

absorption : no data available

degradation(BOD) : no data available

degradation(COD) : no data available

C.organism condenasability

condenasability : no data available

Biodegradability :

aerobic

Result: Readily biodegradable.

68 %

Method: MITI Test

D.Mobility : no data available

E.Additional ecotoxicological : no data available

13. DISPOSAL CONSIDERATIONS

A.Method fo disposal

The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations.

B.Advice on disposal : no data available

14. TRANSPORT INFORMATION

A.UN Number : 1987

B.Proper shipping name : Alcohols, N.O.S

C.Hazard class : 3

D.Packing group : 2

: Not applicable E.Marine pollutant

F.security arrangements on transport

: See Section 5. of this document. In case of fire

In case of accidential

release

: See Section 6. of this document.

15. REGULATORY INFORMATION

A.Information according to ISHA

Regulation	composition	Value Type	Value	Unit	Remark
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B.Information according to TCCA and other chemical management regulations

Regulation composition Value Type Value Unit Remark

C.Dangerous Substances Safety Management Act

Act (Fire Service Act)

Dangerous Materials Control : Flammable liquids, Type 3 petroleums, Water insoluble liquid

D.Regulation of Disposal

Regulation	composition	Value Type	Value	Unit	Remark	
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controlled wastes under Korean Wastes Control Act	2-ethylhexan-1-ol					
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E.Other regulations

Regulation	composition	Value Type	Value	Unit	Remark	
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16. OTHER INFORMATION

A.References (source of data) : (3) F. Initial boiling point/ freezing point (4) G. Flash point (4) H. Evaporation Rate (1) J. Upper explosion limit (1) J. Lower explosion limit (1) K. Vapor pressure (4) L. Solubility in water (3) N. Density (4) O. Partitioning coef. octanol/water (4) S. Molar mass (3) R. Viscosity (4) A. Hazardous reactions (1) C. Substances to avoid (SDS) (1) D. Decomposition products (1) D. Decomposition products (1) D. Decomposition products (1) Acute oral toxicity (4) Acute dermal toxicity (4) Acute Inhalation Toxicity (4) Skin irritation (4) Eye irritation (4) Respiratory sensitization (4) Carcinogenicity (4) Genetic toxicity (4) Genetic toxicity (4) Teratogenicity (4) Assessment STOT - Single Exposure (4) Assessment STOT - Repeated Exposure (4) toxicity to fish (4) Toxicity to aquatic invertebrates (4) Toxicity to aquatic plants (4) absorption (4)

(1) U.S. National library of Medicine(NLM) Hazardous Substances Data Bank(HSDB); http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB

Biodegradation (2)

- (2) REACH information on registered substances; http://apps.echa.europa.eu/registered/registered-sub.aspx
- (3) The Chemical Database -The Department of Chemistry at the University of Akron; http://ull.chemistry.uakron.edu/erd/
- (4) No source information
- (5) International Uniform Chemical Information Database(IUCLID); http://esis.jrc.ec.europa.eu/

B.Date of initial publication : 2013.03.13

C.Revision number and date of the last modification

Revision number : 1
Date of the last :
modification

D.Remark :

Product should be handled, stored, and used in accordance with the generally accepted industrial hygiene practices and in conformity with all the applicable legal regulations.

The information provided herein is based on the state of our knowledge and is intended to describe the product with regard to the requirements of safety.

It should, therefore, not be construed as guaranteeing specific properties.